

EXAMPLE PROJECT



Case Study

Combined Heat and Power (CHP) Energy Centre

Challenge

A University client required a consultant & contractor who could move quickly and work to a very tight schedule for the delivery of a full CHP Energy Centre. We met this challenge by being on site 2 weeks after the order was placed. Another substantial challenge facing our team was digging through an old city on a route which would see it dig beneath Flodden Wall, a historical monument, which involved the team being accompanied by archaeologists.

Solution

The Energy Centre houses one CHP 1.4MWe engine, a 100,000 litre thermal storage, two 9MW back-up/peak load gas boilers, High Voltage/Low Voltage switch-rooms and associated plant. The CHP engine will provide heat and hot water via a district heating network which involved approximately 4km of pipe connecting 13 sites and generating electricity for 14 buildings.

Outcome

The new community energy scheme was installed and finished in time and on budget and now saves the University approximately £170,000 a year in energy costs (gas and electricity) and reduces its annual carbon emissions by an estimated 1,016 tonnes.



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OVERVIEW | Energy Audit: Our Approach